

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP 2004/016183

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' H01L 29/786, H01L 21/336, H01L 21/768, H01L 21/288, H01L 21/3205, G02F 1/1368

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' H01L 29/786, H01L 21/336, H01L 21/768, H01L 21/288, H01L 21/3205, G02F 1/1368

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004,

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-------------------------------|
| X | JP 2003-98548 A (HITACHI, LTD.,) | 1-2, 5-6, 8, 10 |
| Y | 2003.04.03, whole document, Figs.1-7 (Family:none) | 3-4, 7, 9, 11, 13-14 12 |
| A | | |
| Y | JP 2002-49333 A (SEMICONDUCTOR ENERGY LABORATORY CO., LTD.) 2002.02.15, whole document, Figs.1-21 & US 2002/0044111 A1 | 3-4, 7, 9 |
| Y | JP 2003-506886 A (PATTERNING TECHNOLOGY LIMITED) 2003.02.18, whole document, Figs.1-27 & WO 2001/011426 A1 & GB 2352688 A | 11 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22.11.2004

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07.12.2004

Name and mailing address of the ISA/JP

Japan Patent Office

3-4-3, Kasunigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

Sonoko Miyazaki

4M 3123

Telephone No. +81-3-3581-1101 Ext. 3462

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | WO 1997/043689 A1 (SEIKO EPSON CORPORATION) 1997.11.20, page27-28, Figs.14-16 & EP 0855614 A1 & US 2002/0179906 A1 | 11 |
| Y | JP 7-297404 A (KABUSHIKI KAISHA TOSHIBA) 1995.11.10, whole document, Figs.1-6 (Family:none) | 13 |
| Y | JP 4-56168 A (STANLEY ELECTRIC CO., LTD.) 1992.02.24, whole document, Fig.1 (Family:none) | 14 |
| A | JP 2003-258226 A (CANON KABUSHIKI KAISHA) 2003.09.12, whole document, Figs.1-28 (Family:none) | 12 |